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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b> |   | ATTORNEY'S DOCKET NUMBER<br><b>BDL-496XX</b>                        |
|   |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/375305</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/FR2004/002616</b>   | INTERNATIONAL FILING DATE<br><b>14 October 2004</b> | PRIORITY DATE CLAIMED<br><b>16 October 2003</b>                     |
| TITLE OF INVENTION<br><b>TURBOMOLECULAR VACUUM PUMP</b>   |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>Maurice Brunet</b>  |   |   |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ had been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached herewith (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98. **(with enclosed copy of International Search Report)**
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: **3 sheets FORMAL DRAWINGS (Figs. 1-3) with English captions; and**

**Copy of cover sheet of published International Application PCT/FR2004/002616 (publ. WO 2005/038263)**

|   |   |   |                  |                                       |                     |
|---|---|---|------------------|---------------------------------------|---------------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/375305</b>   |   | INTERNATIONAL APPLICATION NO<br>PCT/FR2004/002616                             |                  | ATTORNEY'S DOCKET NUMBER<br>BDL-496XX |                     |
| The following fees have been submitted:   |   |   |                  | <b>CALCULATIONS</b>                   | <b>PTO USE ONLY</b> |
| 21.   | <input checked="" type="checkbox"/> Basic national fee.....   | \$300.00  | \$ 300.00        |                                       |                     |
| 22.   | <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$100.00<br>All other situations ..... \$200.00   |   | \$ 200.00        |                                       |                     |
| 23.   | <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100.00<br>International Search Report prepared and provided to the Office ..... \$400.00<br>All other situations ..... \$500.00 |   | \$ 400.00        |                                       |                     |
| <b>TOTAL OF 21, 22 and 23 =</b>   |   |   | <b>\$ 900.00</b> |                                       |                     |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof. |   |   |                  |                                       |                     |
| Total Sheets  | Extra Sheets  | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE             |                                       |                     |
| - 100 =   | / 50 =  |   | X \$250.00       | \$ 0                                  |                     |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).  |   |   |                  | \$ 0                                  |                     |
| CLAIMS  |   | NUMBER FILED  | NUMBER EXTRA     | RATE                                  |                     |
| Total claims  |   | 12 - 20 =   | 0                | X \$ 50.00                            | \$ 0                |
| Independent claims  |   | 1 - 3 =   | 0                | X \$200.00                            | \$ 0                |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |   |   |                  | + \$360.00                            | \$ 0                |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |   |   |                  | <b>\$ 0</b>                           |                     |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |   |   |                  | \$ --                                 |                     |
| <b>SUBTOTAL =</b>   |   |   |                  | <b>\$ 900.00</b>                      |                     |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(I)).   |   |   |                  | \$ 0                                  |                     |
| <b>TOTAL NATIONAL FEE =</b>   |   |   |                  | <b>\$ 900.00</b>                      |                     |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |   |   |                  | \$ 0                                  |                     |
| <b>TOTAL FEES ENCLOSED =</b>  |   |   |                  | <b>\$ 900.00</b>                      |                     |
|   |   |   |                  | Amount to be Refunded:                | \$                  |
|   |   |   |                  | Amount to be Charged:                 | \$                  |

a. ☒ A check in the amount of \$ 900.00 to cover the above fees, except assignment recordation, is enclosed. A check in the amount of \$ \_\_\_\_\_ is enclosed for the assignment recordation fee.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0804. A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

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| SEND ALL CORRESPONDENCE TO:<br><br><input checked="" type="checkbox"/> Customer Number 00207 | which is associated with the Law Firm of:<br><br>WEINGARTEN, SCHURGIN, GAGNEBIN & LEOVICI LLP<br>Ten Post Office Square<br>Boston, Massachusetts 02109<br>United States<br>Telephone: (617) 542-2290 Fax: (617) 451-0313 |
|--|--|

Attorney Signature:   
 Attorney Name: Charles L. Gagnebin III

Date: 4-11-6  
 Registration No: 25,467